

# Graphing linear equations

December 7, 2009

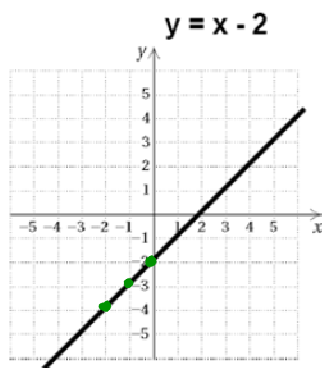
## Objectives

- Graph linear equations.

## An example

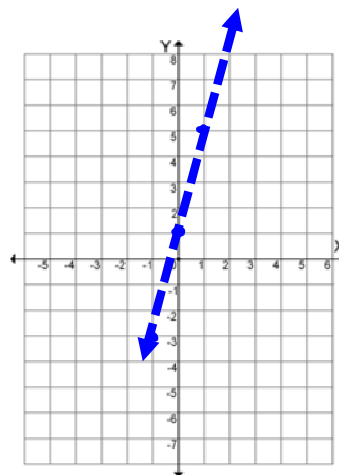
Example: Graph.  $y = x - 2$

$x$	$y$	$(x, y)$
	$y = x - 2$	
-2	-4	$(-2, -4)$
-1	-3	$(-1, -3)$
0	-2	$(0, -2)$
1	-1	$(1, -1)$
2	0	$(2, 0)$



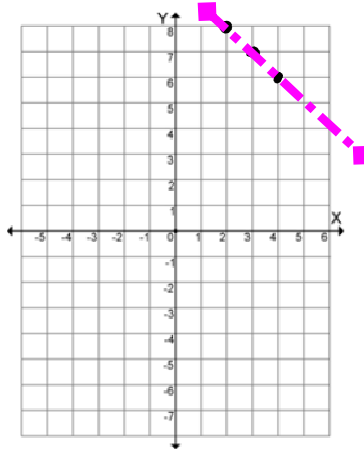
$$y = 4x + 1$$

$x$	$y$
0	$4(0) + 1 = 1$
1	$4(1) + 1 = 5$
2	$4(2) + 1 = 9$
-1	$4(-1) + 1 = -3$



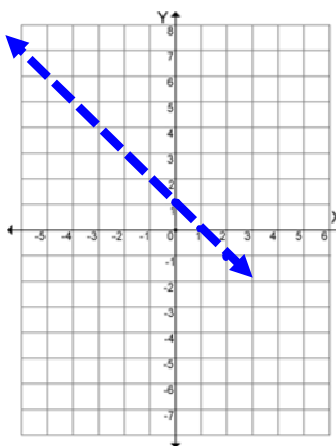
$$x+y=10$$

x	x+y=10	(x, y)
0	$0+y=10$ $y=10$	0,10
1	$1+y=10$ $y=9$	1,9
2	$2+y=10$ $y=8$	2,8
3	$3+y=10$ $y=7$	3,7
4	$4+y=10$ $y=6$	4,6

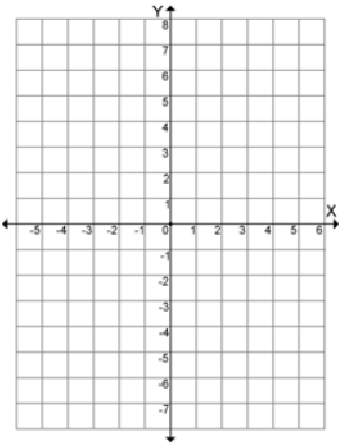


$$y = -x + 1$$

x	y	(x, y)
0	$y = -0 + 1$ $y = 1$	0,1
1	$y = -1 + 1$ $y = 0$	1,0
2	$y = -2 + 1$ $y = -1$	2,-1



x	y	(x, y)



x	y	(x, y)

